

## ABSTRACT OF THE DISCLOSURE

An analysis system comprises an endoscope 10 (guiding apparatus) and a Raman analysis apparatus 40. An insert portion 12 of the endoscope 10 is inserted into the vessel. The endoscope 10 has a channel 10a formed therein and extending from an introducing pipe 18 of a grip 11 (main body portion) to a window formed in a distal end of the insert portion 12. An insert cable 54 of the Raman analysis apparatus 40 is inserted into the channel 10a. A single number of excitation optical fiber 60 and a bundle 70A of a plural number of light receiving optical fibers 70 are received in the insert cable 54. A basal end of the excitation optical fiber 60 is connected to an excitation light source 42, and a basal end of the light receiving optical fibers bundle 70A is connected to a spectroscope 41. An excitation light from the light source 42 is emitted from the window via the excitation optical fiber 60 and Raman scattered by impinging on matter adhered to an inside wall of the vessel. This scattered light is made incident to the window and spectrally analyzed by the spectroscope 41 via the light receiving optical fibers bundle 70A, and thus, the adhered matter is analyzed.